

Figure 1

				rrgur	5					
ggcgcccgcc	cgccgcccgc	ccggcccccg	gctgcctccc			tcccttgcgc	tegetegete	getegeeete	ggcgcat ggg	100
eccegegeeg	ggccccgggg	cctcgggccg	cctggcctcc	ggggtecect	aggcccgggc	gtgggcgggg	cageceggee	tgacgcagec	tetgtacccc	200
accaccacca	ccaccagggc	cggcggcggc	ggctgccccg	agggacgggg	ccctaggcgg	tggcgATGGG M G	GGCCGTCCGG R V R	ATCGCGCCCG	GCCTGGCGCT L A L	300
	TGCCCGGTGC C P V L	TCAGCTCCGC S S A	GTACGCGCTG				GAGCAGATCT E Q I F		CCGCGCCCAG R A Q	400
GCCCAGTGCC A Q C Q		САЯАБААБТС К E V			AATGGAATCA M E S		GGGCTTCTGC A S A	ATCCACATCA S T S	GGGAAGCCTA G K P K	500
AGAAAGAGAA K E K		ARGETETACE K L Y P			GRGGTGCCCA E U P T			CGCCCCTGCC R P C L	TGCCCGAGTG P E W	600
GGACCACATC D H I	CTTTGCTGGC L C N P	CGCTGGGGGC L G A	ACCAGGTGAG P G E	GTGGTGGCTG U U A U		CGACTACATT D Y I	TATGACTTCA Y D F N	ATCACAAAGG H K G	CCATGCCTAC H A Y	700
CGTCGCTGTG R R C D	ACCGCAATGG R N G	CAGCTGGGAG S W E	CTGGTGCCTG L V P G		GACGTGGGCC T W A I			GTTCCTGACC F L T	AACGAGACTC N E T R	800
GTGAACGGGA E R E	GGTGTTTGAC U F D	CGCCTGGGCA R L G M			TCCGTGTCGC S V S L			GTGCTCRTCC V L I L		900
CAGGCGGCTG R R L	CACTGCACAC H C T R	GERACTACRT N Y I	ссяс <mark>ятьсяс</mark> н и н						GGIGCTCTAG U L Y	1000
TCGGGCGCGA S G A T		GGCCGAGCGC A E R	CTCACGGAGG L T E E		CGCCATCGCC A I A		CGCCGCCCAC P P T		GGCTACGCGG G Y A G	1100
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GCTGCAGGGT C R U	AGCTGTGACC A U T	TTCTTCCTTT F F L Y			TACTGGATIC	TGGTGGAGGG U E G		[1200
C R U	A V T		F L A	T N Y	TACTGGATTC Y U I L	1661668666 U E 6 IV CG1C11CG16	### TECTOR TECTOR	CRIRGICICA H S L I ICAGCGIGAG S U R	F M A	1200 1300
C R U	A U T GRGRAGARGT E K K Y GGTGCTGGGA	F F L Y	F L A CTTCACGGTC F T U GGGAACARGA	T N Y TTCGGCTGGG F G W G RGTGGATCAT	TRCTGGRTTC Y U I L GTCTGCCGC L P A CCAGGTGCCC	TGGTGGAGGG U E G IV CGTCTTCGTG U F U ATCCTGGCCT	GCTGTGTGGG AUMU CTGTTGTGGGCT	CRINGTOTOR H S L I TORGOGIGNG S U R V	F M A AGCCACCCTG A T L	
C R U CTICTIOTCA F F S GCCAACACGG A N T G ACATCGTCCG I U R	A U T GRGRAGARGT E K K Y GGTGCTGGGA C U D GGTGCTCGCC U L R	F F L Y RCCTOTGGGG L W G CTTGAGCTCC	F L A CTTCACGGTC F T U GGGAACARGA G N K K GGGAGACCAA	T N Y TTCGCTGGG F G W G RETGGATCAT W I I TGCCGGCCGG	TACTGGATTC V M I L GTCTGCCGC L P A CCAGGTGCCC	TGGTGGRGGG U E G IV CGTCTTCGTG U F U RTCCTGGCCT I L A S GGCRGCRGTA	GCTGTGTGGG A U W U CTATTGTGCT	CATAGTOTOA H S L I ICAGCGTGAG S V R V CARCITCATO	F N A AGCCACCCTG A T L TIGITCATCA L F I N CACTGGTGCT	1300
C R U CTICITOTOR F F S GCCARCACG R N T G GCAICGICCG I U R	GREATER OF THE CONTROL OF THE CONTRO	F F L Y RCCTOTGGGG L W G CTTGAGCTCC L S S RCCAAAGCTGC T K L R RCTACATCGT Y I U	F L A CTTCACGGTC F T U GGGAACARGA G N K K GGGAGACCAA E T N CTTCATGGCC	T N Y TTCGGCTGGG F G H G AGTGGATCHT H I I TGCCGGCCGG R G R	THCTGGGTTC V H I L GTCTGCCGC L P R CCAGGTGCCC Q U P TGTGACACGC C D T R CCGAGGTCTC	TGGTGGRGGG U E G IV CGTCTTCGTG U F U RTCCTGGCCT I L A S GGCRGCRGTR Q Q Y	GCTGTGTGGG R U U U CTGTTGTGCT I U L CCGGGAAGCTG R K L	CRINGTCTCA H S L I TCRGCGTGNG S U R V CRRCTTCRTC N F I CTCRAATCCA L K S T RGATGCACTA	F N A AGCCACCCTG A T L TIGITCATCA L F I N CACTGGTGCT L U L	1300 1400
C R U CTICITOTCH F F S GCCARCACGG A N T G HCAICGICCG I U R CAIGCCGCIC H P L	GRIGGTEGEC GRIGGT	F F L V ACCTOTOGOG L W G CTTGAGCTCC L S S ACCIAAGCTGC T K L B ACTACATCGT	F L A CTTCACGGTC F T U GGGAACARGA G N K K GGGAGACCAA E T N CTTCATGGCC F N R	T N Y TTCGCTGGG F G U G AGTGGATCAT H I I TGCCGGCCGG A G R ACGCCGTACA T P Y T GTTTCTGCAA	THCTGGGTTC Y H I L GTCTGCCCCC L P A CCAGGTGCCC Q U P TGTGACACGC C D T R CCGAGGTCTC E U S	TGGTGGRGGG U E G IV CGTCTTGGTG U F U RTCCTGGCCT I L A S GGCRGCAGTA Q Q Y RGGGACGCTC G T L	TI GCTGTGTGGG	CRIRGICICA H S L I TCAGCGTGAG S V R V CRACTICATC N F I CTCAGAGICCA L K S T AGATGCACTA H Y	F N A AGCCACCCTG A T L TIGITCATCA L F I N CACTGGTGCT L V L CGAGGTGCTO E N L	1300 1400 1500
C R U CTICITGTOR F F S GCCARCACGG R N T G GCRICGTCCG I U R CRIGCCGCIC M P L TICARCICCT F N S F CCCTGGRCTT	GREATER FOR THE CARGEST TO THE CARGE	F F L V RCCTGTGGGG L W G CTTGAGCTCC L S S RCDAAGCTGC T K L R RCTACATCGT V L U VII TITTGTGGGCC	F L A CTTCACGGTC F T U GGGAACARGA G N K K GGGAGACCAA E T N CTTCATGGCC F M R ATCATATACT I I Y C GGAGCAGCAG	T N Y TTCGGCTGGG F G H G RGTGGATCAT H I I TGCCGGCCGG A G R RCGCCGTACA T P Y T GTTTCTGCAA F C N TTACAGCTAC	THCTGGGTTC V U I L GTCTGCCGC L P A CCGGGGGCCC Q U P TGTGACACGC C D T R CCGAGGTCTC E U S TGGGGGGGGTA G E U GGCCCGATGG	TGGTGGRGGG U E G IV CGTCTTCGTG U F U ATCCTGGCCT I L A S GGCAGCAGTA Q Q Y AGGGACGCTC G T L CAGGCCGAGA Q A E I TGTCTCACAC	CCGGAAGCTG CCG	CRITAGICICA H S L I TCRECGIGNE S U R V CRRCTICATC N F I CICABATICA L K S T RGATGCACTA H Y CTGGAGCCGC U S B RACGTAGGCC	F M A AGCCACCCTG A T L TIGITCATCA L F I M CACTGGTGCT L V L CGAGATGCTC E M L TGGACACTGG W T L A CCCGCGCGGG	1300 1400 1500 1600
C R U CTICITCHER F F S GCCRRCRCGG R N T G HCRICGTCCG I U R CRIGCCGCTC H P L TICRRCTCCT F N S F CCCTGGRCTT L D F	GREATER LE CARGEGEARGE K R K	F F L V RCCTOTGGGG L W G CTTGAGCTCC L S S RCDAAGCTGC T K L R RCTACATCGI VII TTTTGTGGCC F U A GCCCGAAGTG A R S G CCCGCCTGCT	F L A CTTCACGGTC F T U GGGAACARGA G N K K GGGAGACCAR E T N CTTCATGGCC F N A ATCATATACT I I Y C GGAGCAGCAG S S S	T N Y TTCGGCTGGG F G H G RGTGGATCAT H I I TGCCGGCCGG R G R RCGCCGTACA T P Y T GTTTCTGCAA F C N TTACAGCTAC Y S Y	THCTGGGTTC Y H I L GTCTGCCGC L P A CCAGGTGCCC Q U P TGTGACACGC C D T R CCGAGGTCTC E U S TGGCCGAGGTAGG G E U CCACCGCCATGG G P M U CCACCGCCAC	TGGTGGRGGG U E G IV CGTCTTGGTG U F U RICCTGGCCT I L R S GGCRGCRGTR Q Q Y RGGGRGCGCTC G T L CRGGCCGRGR Q R E I TGTCTCRCAC S H T	GCTGTGTGGG R U U U CTATTGTGCT I U L CCGGAAGCTG R K L TGGCAAGTCC U Q U Q TCAAGGAAATC K K S GAGCGTGACC S U T	CRINGTICA H S L I TCRGCGTGRG S V R V CRRCTICATC N F I CTCRARATCCR L K S T RGATGCACTA H H V CTGGRGCCGC U S R ARCGTAGGCC N U G P	F M A AGCCACCCTG A T L TTGTTCATCA L F I N CACTGGTGCTI L V L CGACATGCTCG E M L TGGACACTGG W T L A CCCGCGCGGG R A G	1300 1400 1500 1600
C R V CTICITGTOR F F S GCCARCACGG R N T G ACRICGTCCG I U R CRIGCCGCTC H P L TICARCTCCT F N S F CCCTGGACTT L D F ACTTGGCCTG L G L	GREATER COLOR COLO	F F L V RCCTOTGGGG L W G CTTGAGCTCC L S S RCDAAGCTGC T K L R RCTACATCGI VII TTTTGTGGCC F U A GCCCGAAGTG A R S G CCCGCCTGCT	F L A CTTCACGGTC F T U GGGAACARGA G N K K GGGAGACCAA E T N CTTCATGGCC F M R RTCATATACT I I Y C GGAGCAGCAG S S S GCCCGCCGCT P A A	T N Y TTCGGCTGGG F G H G RGTGGATCAT H I I TGCCGGCCGG R G R RGGCCGTACA T P Y T GTTTCTGCAA F C N TTACAGCTAC Y S Y GCCGCCACCA A A T T CTCCCAAGGA	THCTGGGTTC V U I L GTCTGCCGC L P A CCAGGTGCCC Q U P TGTGACACGC C D T R CCGAGGTCTC E U S TGGCCGGGTA G E U CCACCGATGG G P M U CCACCGCCAC T A T	TGGTGGRGGG U E G IV CGTCTTCGTG U F U RTCCTGGCCT I L R S GGCRGCRGTR Q Q Y RGGGRCGCTC G T L CRGGCCGRGR Q R E I TGTCTCRCAC S H T CRCCRACGGC T N G	CCCCCCCGR	CRINGTOTOR H S L I TCRGCGIGNG S U R V CRRCTICRIC N F I CTCRRATICCR L K S T AGRIGGECGE H S R ARCGTAGGECGE N U G P TCCCGGGCCA P G H	F M A AGCCACCCTG A T L ITGTTCATCA L F I M CACTGGTGCTI L V L CGAGATGCTG E M L TGGACACTGG W T L A CCCGCGCGGG R A G CACCAAGCCA T K P	1300 1400 1500 1600 1700 1800
C R U CTICITOTER F F S GCCARCRCGG R N T G GCAICGICGG I U R CAIGCCGCIC H P L TICARCICCI F N S F CCCTGGACTT L D F ACTIGGCCTG L G L GGGGCCCCGA G R P I	GREATER CONTROL OF A U T GREATER C H D GREAT	F F L V ACCTOTOGOGO L W G CTTGAGCTCC L S S ACCIARGCTGC T K L R ACTACATCGT V I U VII TITTGTCGCC F U A GCCCGAAGTG A R S G CCCGCCTGCT R L L CACACCACCACCT	F L A CTTCACGGTC F T U GGGAACARGA G N K K GGGAGACCAA E T N CTTCATGGCC F M R ATCATATACT I I Y C GGAGCAGCAG S S S GCCCGCCGCT P A A GCCACGGCTG A T A A AGGAGTGGGA	T N Y TTCGCTGGC F G H G AGTGGATCHT H I I TGCCGGCCGG A G R ACGCCGTHCH T P Y T GTTTCTGCHA F C N TTACAGCTHC Y S Y GCCGCCACCA A A T T CTCCCCAAGGA P K D	THCTGGGTTC Y U I L GTCTGCCGC L P A CCAGGTGCCC Q V P TGTGACACGC C D T R CCGAGGTCTC E V S TGGCCGAGGTA G E V CCACCGCATGG G P N V CCACCGCCAC T A T CGATGGGTTC D G F	TGGTGGRGGG U E G IV CGTCTTGGTG U F V RTCCTGGCCT I L R S GGCAGCAGTA Q Q Y AGGGACGCTC G T L CAGGCCGAGA Q R E I TGTCTCACAC S H T CACCAACGGC T N G CTCAACGGCT L N G S	GCTGTGTGGG R U U U CTATTGTGCT I U L CCGGAAGCTCC H Q U Q TCAAGGAAGTCC K K S GAGCGTGACC S U T CACCCCCGA H P P I CCTGCTCGGG C S G	CRINGTETCA H S L I TCAGCGTONG S V R V CRACTICATC N F I CTCABATCCA L K S T AGATGCACTA H H Y CTGGAGCCGC U S R AACGTAGGCC N U G P TCCCGGGCCA P G H GCTGGACGAG L D E	F N A RECERCETE R T L ITETICATEA L F I N CRETEGIECT L V L CONGRIGETO E N L TOGANCATEGE W T L R CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	1300 1400 1500 1600 1700 1800

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dPTH1 rPTH1 mPTH1 hPTH1	Figure 2 ATGGGGGCCG MCCGGATCGC ECCOGGCCTG GCGCTGCTGC TCTGCTGCCC GGTGCTCAGC TCCGCGTAGG CGCTG ATGGGGGCCG CCCGGATCGC MCCCAGCCTG GCGCTGCTAC TCTGCTGCCC MGTGCTCAGC TCCGCATAGG CGCTG ATGGGGACCG CCCGGATCGC MCCCAGCCTG GCGCTGCTTC TCTGCTGCCC MGTGCTCAGC TCCGCATAGG CGCTG ATGGGGACCG CCCGGATCGC MCCCGGCCTG GCGCTGCTGC TCTGCTGCCC CGTGCTCAGC TCCGCGTAGG CGCTG	75 75 75 75
dPTH1 rPTH1 mPTH1 hPTH1	ETGGATGAG ATGAGGTOAT BACCIANAGAG GAGCAGATIOT TCCTGCTGCA CCGGGGCCAG GCCCAGTGCC NAAAG GTGGATGCGG ACGATGTOTT TIACCIANAGAG GAYCAGATTIT TCCTGCTGCA CCGTGCCCAG GCGCAATGTG ACAAG GTGGAGGGAG ACGATGCTGTT TIACCIANAGAG GAYCAGATTIT TCCTGCTGCA CCGTGCCCAG GCGCAATGTG ACAAG GTGGATGGAG ATGAGGTOAT BACTIANAGAG GAYCAGATGT TCCTGCTGCA CCGTGCTCAG GCCCAATGCG AYAAA	150 150 150 150
dPTH1 rPTH1 mPTH1 hPTH1	COGCTCAAAG AAGTICTGCA BAGGCAGGT GACATAATGG AATCAGACAA AGGATGGAGT TCIGGATCIA CATCA CIIGCTCAAAG AAGTICTGCA CACAGCAGGC AACATAATGG AGTCAGACAA GGGGTGGACIA CCAGCATCIA CETCA CIIGCTCAAAG AAGTICTGCA CACAGCAGGC AACATAATGG AGTCAGACAA AGGGTGGACIT CCAGCATCIA CETCA CIIGCTCAAAG AGGTICTGCA GAGGCAGGC AGCATAATGG AATCAGACAA AGGATGGACA TCIIGCGTCCA CATCA	225 225 225 225 225
dPTH1 rPTH1 mPTH1 hPTH1	IGGGAAGCOTA MGAAAGADAA GGCATIOTIGEG AAGOTCTACC CHIGAGTOCGA EGAGGACAAG GAEGTOCCCA CHIGGC GGGAAGCODA EGAAAGADAA GGCATIOTIGED AAGOTCTACC CHIGAGTOTAA MGAGAACAAG GAEGTOCCCA CEGGC GGGAAGCODA EGAAAGADAA GGCATIOTIGEG AAGOTCTACC CEGAGTOTAA AGAGAACAAG GATGTOCCCA CEGGC GGGAAGCODA EGAAAGATAA GGCATIOTIGEG AAGOTCTACC CHIGAGTOTDA EGAGGACAAG GAEGCACCCA CHIGGC	300 399 300 300
dPTH1 rPTH1 mPTH1 hPTH1	AGCAGGCADO GAGGGCODO CTOCCTGCOC GAGTGGGADO ACATOCTITE CTGGCOGGTG GGGGCACCAG GTGAS AGCAGGCOCA GAGGGCOTOC CTGTCTGCOC GAGTGGGADA ACATOCTITE CTGGCCATTA GGGGCACCAG GTGAA AGCAGGCOCA GAGGGCOTOC CTGTCTGCOA GAGTGGGADA ACATOCTITE CTGGCCATTG GGGCACCAG GTGAA AGCAGGTADO GAGGGCOCOC CTGTCTGCOG GAATGGGAOC ACATOCTICE CTGGCOGTG GGGGCACCAG GTGAA	375 375 375 375
dPTH1 rPTH1 mPTH1 hPTH1	GTGGTGGGTG TECCOTGTCC EGACTACATT TATGACTTCA ANCACAAAGG CCATGCCTAC CONCECTING ACCGC GTGGTGGGTGGGTGGTGTGTGTGTGTGTGTGTGTG	450 450 450 450
dPTH1 rPTH1 mPTH1 hPTH1	AATGGCAGCT GGGAGGTGGT ECCTIGGACAC AACGGGACGT GGGCCAACTA CAGCGAGTGT GTCAAGTTCC TACCC AATGGCAGCT GGGAGGTGGT ICCAGGGCAC AACGGGACGT GGGCCAACTA CAGCGAGTGC CTCAAGTTCA TEACC AATGGCAGCT GGGAGGTGGT ICCAGGGCAC AACGGGACGT GGGCCAACTA CAGCGAGTGC CTCAAGTTCA TGACC AATGGCAGCT GGGAGGTGT GTCAAGTTTC TCACC	525 525 525 52 5
dPTH1 rPTH1 mPTH1 hPTH1	AAGGAGACIC GIGAACGGA GETETTTGAC CGCCTIGGGCA TGATICTACAC CGTGGGCTAC TCCHTGTCGC TEGCC AAIGAGACIC GGGAACGGGA GGTIATTTGAC CGCCTIAGGCA TGATICTACAC CGTGGGATAC TCCHTGTCTIC TEGCC AAIGAGACTC GGGAACGGGA GGTIATTTGAC CGCCTIGGGCA TGATICTACAC CGTGGGATAT TCCHTGTCTIC TIGCC AAIGAGACTC GIIGAACGGGA GGTI	600 600 600
dPTH1 rPTH1 mPTH1 hPTH1	TCCCTCADOG TEGODETECT CATCCTOSCC TADTTOAGGC GGCTGCACTG CACHCGCAAC TACATCCACA TGCAC TCCCTCADOG TEGOTEGETECT CATCCTOSCC TANTTOAGGC GGCTGCACTG CACECGCAAC TACATCCACA TGCAC TCCCTCADOG TEGOTEGETECT CATCCTAGCC TANTTOAGGC GGCTGCACTG CACEGGCAAC TACATCCACA TGCAC TCCCTCADOG TAGOTEGECT CATCCTOGCC TAOTTOAGGC GGCTGCACTG CACECGCAAC TACATCCACA TGCAC	675 675 675 675
dPTH1 rPTH1 mPTH1 hPTH1	CTGTTCCTGT COTTICATGCT INCECECCE & AGCATOTTOE TOWAGGACGO GETGCTCTAC TOUGGGGCA CECTOR ATGTTCCTGT CETTICATECT ECCECECCE & AGCATOTTOE TEMAGGACGO INTEGECTION CECTOR ATGTTCCTGT CETTICATECT ECCECECCECE & AGCATOTTOE TEMAGGACGO INSTRUCTOR TOUGGGCTION CECTOR CECTOR CETTICATECT CONTINUATECT ECCECCECE & AGCATOTTOE TOWAGGACGO INSTRUCTOR TOUGGCGCO CECTOR C	750 750 750 750
dPTH1 rPTH1 mPTH1 hPTH1	GANGAGGONG AGCGCCTCAC GGAGGAAGAG DTGCGCGCATCGCCCAGGC ACCCCCGCCG CCCACCGCCG CCGCCGCAGGCAANGAGAGAGAGAGAGAGAGAGAGAGAGA	825 812 812 824
dPTH1 rPTH1 mPTH1 hPTH1	GGCT ACGOGGGCTG CAGGGTAGGT GTGACCTTCT TCCTITATTT CCTGGCDACC AACTA GGCCGCTGCC GCCGTAGGT ACGCTGGCTG CCCGCTGGCG GTGACCTTCT TCCTCTACTT CCTGGCTACC AACTA CGCCGCTGCC GCCGTTGGGT ACGCTGGCTG CCGGTGGCT GTGACCTTCT TCCTCTACTT CCTGGCTACC AACTATGCCGGCT ACGGGGGCTG CAGGGTGGGT GTGACCTTCT TCCTTTACTT CCTGGCCACC AACTA	884 887 887 887
dPTH1 rPTH1 mPTH1 hPTH1	CTACTGGATT CTGGTGGAGG GCCTGTADOT CCATAGTCTC ATCTTCATGG CCTTOTTCTC AGAGAAGAAG TACCT CTACTGGATT CTGGTGGAGG GCCTGTADOT CCACAGCCTC ATCTTCATGG CCTTOTTCTC AGAGAAGAAG TACCT CTACTGGATT CTGGTGGAGG GCCTGTADOT ACACAGCCTC ATCTTCATGG CCTTOTTCTC AGAGAAGAAG TACCT CTACTGGATT CTGGTGGAGG GCCTGTADOT CCACAGCCTC ATCTTCATGG CCTTOTTCTC AGAGAAGAAG TACCT	959 962 962 962

Figure 2 con't

dPTH1 rPTH1 mPTH1 hPTH1	GTGGGGCTTC ACCATCTITIG GCTGGGGTCT MCCGGGTGTC TTCGTGGCTG TGTGGGTGG TGTGAGAGGA ACCHT	1034 1037 1037 1037
dPTH1 rPTH1 mPTH1 hPTH1	GGCCAACAC GGGTGCTGGG ACTTGAGCTC DGGGAACAAG AAGTGGATCA TCCAGGTGCC CATCCTGGGC ICLATT GGCCAACACT GGGTGCTGGG ATCTGAGCTC DGGGCACAAG AAGTGGATCA TCCAGGTGCC CATCCTGGCA ICLTGT GGCCAACACT GGGTGCTGGG ACCTGAGCTC IIGGGCACAAG AAGTGGATCA TCCAGGTGCC CATCCTGGCA ICLTGT	1109 1112 1112 1112
dPTH1 rPTH1 mPTH1 hPTH1	TGTGCTCAAC TTCATCOTTO THATCAACAT CHTCCGGGTG CTHGCCACTA AGCTTICGGGA GACCAATGCG GGCCG	1184 1187 1187 1187
dPTH1 rPTH1 mPTH1 hPTH1	GTGTGACADE AGGCAGCAGT ACCGGAAGCT GCTCAGGTCC ACTITGGTGC TEGTGCCACT CTTTGGTGTC CACTA	1259 1262 1262 1262
dPTH1 rPTH1 mPTH1 hPTH1	CACCETTTE ATESCETTE CETACACCEA GETETEAGGE ACATHETEGE ABATECAGAT SCANTAGEAG ATECT CACCETTTE ATESCETTE CETACACCEA GETETEAGGE ACACTETE ATESCET ATECT ATESCETTE CACCETTE ATESCET ATECT ATESCETTE ATESCET ATECT ATESCET ATECT ATESCET ATECT ATESCET ATECT ATESCET ATESCET ATECT ATESCET ATECT ATESCET ATECT ATESCET ATECT ATESCET ATESCET ATECT ATESCET ATECT ATESCET ATECT ATESCET ATESCET ATECT ATESCET ATECT ATECT ATECT ATECT ATESCET ATECT	1334 1337 1337 1337
dPTH1 rPTH1 mPTH1 hPTH1	CTTCAACTCC TTCCAGGGAT TTTTTGTTGC CATCATATAC TGTTTCTGCA ATGGTGAGGT CAGGGAGAG ATHAG CTTCAACTCC TTCCAGGGAT TTTTTGTTGC CATCATATAC TGTTTCTGCA ATGGTGAGGT CAGGCAGAG ATHAG	1409 1412 1412 1412
dPTH1 rPTH1 mPTH1 hPTH1	GAAGTOATEG AGCCGCTGGA CACTGGGGTT GGACTTCAAG CGCAAAGGAC GAAGTGGGAG TAGCAGCTAC AGCTA GAAGTOTTGG AGCCGCTGGA CACTGGGATT GGACTTCAAG CGTAAAGGAC GAAGTGGGAG TAGCAGCTAC AGCTA	1484 1487 1487 1487
dPTH1 rPTH1 mPTH1 hPTH1	TIGGCCONATG GITGTICIACA CHAGTIGTGAC CAATIGTIGGGC CCCCGTIGCAG GACTICAGCCT CCCCTIGAGC CCCCG	1559 1562 1562 1562
dPTH1 rPTH1 mPTH1 hPTH1	CCTGCTGCCC GCCGCTGCCG CCACCACCAC DGCCADDACC AADGGCCADC CDCCGATIGCC DGGCCACACC AAGCC CCTGCT	1634 1616 1616 1619
dPTH1 rPTH1 mPTH1 hPTH1	AGGGGGGCG ACCCTCCGG-G-C CADACCACCT GCDADGGGTG LTCCCAAGGA CGATGGGTTC CTDAA AGGGGGCCGA GCCACTGAGA CTGAAAC CETIACCAGTC ACHANGGGG HTCCCAAGGA CGATGGGTTC CTHAA GGGCGCCCGA GCCATTGAGA ACGAAAC CATACCAGTT ACHANGAGAG HTCCCAAGGA CGATGGGTTC CTHAA AGGGAGCCGA GCCCTGGAGA CCCTGGAGAC CACCCACCT GCDANGGGTG LTCCCAAGGA CGATGGGTTC CTDAA	1700 1688 1688 1694
dPTH1 rPTH1 mPTH1 hPTH1	GECTECTEC TEGEOGETES ALGAGGAGGE CTECHOOODIG EMECGGEOILE CECHOTOT BEAGGAGGE TEGGA GEGETECTES TEAGGOETES ALGAGGAGGE CTECHOOOTIG EDECGGEOOF CHICATTOTT BEAGGAAGAA TEGGA TIGGETECTES TECHOOOTIG ALGAGGAGGE CTECHOOOTIG EDECGGEOOF CHICATTOTT BEAGGAAGAA TEGGA GEGETECTES TEAGGOETES ALGAGGAGGE CTECHOOOTIG EAGGGGEOOF CHICATTOTT ACAGGAAGA TEGGA	1775 1763 1763 1769
dPTH1 rPTH1 mPTH1 hPTH1	GACGGTCATG TGA AACAGTCATG TGA AACAGTCATG TGA GACAGTCATG TGA	1788 1776 1776 1782

Seq. ID No. 3A dPTH1; Seq. ID No. 3B rPTH1; Seq. ID No. 3C mPTH1 & Seq. ID No. 3D hPTH1

Figure 3

166 166 166 166	200 200 200 200 200	299 300 300 300	399 400 400 400	499 588 588 588	595 591 593 593
MGAVRIAP & ALLLCCPVLS SAYALVDADD VMTKEEQIFL LHRAQAQQ & KILKEVIQRPADIMESDKGWA SASTSGKRKK EKASGKIYPE SHEGMEVPTG	SRHRGRPCLP EWDHILCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWBIVPGH NRTWANYSEC MKRITNETRE REVFDRLGMI YTVGYSVSLA	SLTVAVLILA YFRRLHCTRN YIHMHUFLSF MLRAVSIFVK DAVLYSGÅTL DEAERLTEEE LRAIAGAPPP PTAAA GYAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVWV SVRATLANTG CWDLSSGMKK WIIQVPILAS IVLNFILFIN INRVLATKLR ETNAGRCDTR	OQYRKLUKST LVUMPLFGVH YIVFMATPYT EVSGTLWQVQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI KKSWSRWTLA LDFKRKARSG SSSYSYGPNV	SHTSVTNVGP RAGUGLPLSP RLLPAAAATT TATTNGHPPI PGHNKPGAFT LPATTPPA TAAPKDDGFL NGSCSGLDEE AS AP ERPPAL LQEEWETVM SHTSVTNVGP RAGUSLPLSP RLPPALTT-NGHSQL PGHAKPGAFA TET-ETTPVT MAVPKDDGFL NGSCSGLDEE AS SARPPPL LQEEWETVM AHTSVTNVGP RAGUSLPLSP RLLPATTT-NGHSQL PGHAKPGAFA IEN-ETTPVT MTVPKDDGFL NGSCSGLDEE AS SARPPPL LQEEWETVM SHTSVTNVGP RAGUGLPLSP RLLPTATTNGHPQL PGHAKPGTFA LETLETTFPA MAAPKDDGFL NGSCSGLDEE AS \$PERPPAL LQEEWETVM SEG. ID NO. 2A GPTH1; Seg. ID NO. 2D APTH1.
MGAARIAPSL ALLLCCPVLS SAYALVDADD VHTKEEQIFL LHRAQAQQDK ULKEVUHTAANIMESDKGWT PASTSGKRRK EKASGKFYPE SKENKDVPTG	SRRRGRPCLP EWDNIYCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWBVVPGH NRTWANYSEC LKRMTNETRE REVFDRLGMI YTVGYSNSLA	SLTVAVLILA YFRRLHCTRN YIHMHNFLSF MLRAASIFVK DAVLYSGFTL DEAERLTEEE LHIIAGVPPP PAAAAVGYAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTJFGWG LPAVFVAVWV GVRATLANTG CWDLSSGMKK WIIQVPILAS WVLNFILFIN IJRVLATKLR ETNAGRCDTR	QQYRKLURST LVUVPLFGVH YTVFMALPYT EVSGTLWQIQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI RKSWSRWTLA LDFKRKARSG SSSYSYGPNV	
MGTARIAPSL ALLLCCPVLS SAYALVDADD VHTKEEQIFL LHRAQAQQDK ULKEVUHTAANIMESDKGWT PASTSGKRRK EKARGKFYPE SKENKDVPTG	SRRRGRPCLP EWDNIVCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWBVVPGH NRTWANYSEC LKRMTNETRE REVFDRLGMI YTVGYSVSLA	SLTVAVLILA YFRRLHCTRN YIHMHNFLSF MLRAASIFVK DAVLYSGFTL DEAERLTEEE LHIIAGVPPP PAAAAVGYAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTJFGWG LPAVFVAVWV GVRATLANTG CWDLSSGMKK WIIQVPILAS WVLNFILFIN IJRVLATKLR ETNAGRCDTR	QQYRKLURST LVUVPLFGVH YTVFMALPYT EVSGTLWQIQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI RKSWSRWTLA LDFKRKARSG SSSYSYGPNV	
MGTARIAPGL ALLLCCPVLS SAYALVDADD VMTKEEQIFL LHRAQAQOFK RIKEVUQRPA SIMESDKGWT SASTSGKRRK DKASGKUYPE SHEGDKEAPTG	SRYRGRPCLP EWDHILCWPL GAPGEVVAVP CPDYIYDFNH KGHAYRRCDR NGSWBIVPGH NRTWANYSEC WKFITNETRE REVFDRLGMI YTVGYSVSLA	SLTVAVLILA YFRRLHCTRN YIHMHUFLSF MLRAVSIFVK DAVLYSGATL DEAERLTEEE LRAIAGAPPP PATAAGSAG CRVAVTFFLY FLATNYYWIL	VEGLYLHSLI FMAFFSEKKY LWGFTVFGWG LPAVFVAVWV SVRATLANTG CWDLSSGMKK WIIQVPILAS IVLNFILFIN IVRVLATKLR ETNAGRCDTR	QQYRKLUKST LVUMPLFGVH YTVFMATPYT EVSGTLWQVQ MHYEMLFNSF QGFFVAIIYC FCNGEVQAEI KKSWSRWTLA LDFKRKARSG SSSYSYGPNV	
dPTH1	dPTH1	dPTH1	dPTH1	dPTH1	dPTH1
rPTH1	rPTH1	rPTH1	rPTH1	rPTH1	rPTH1
mPTH1	mPTH1	mPTH1	mPTH1	mPTH1	mPTH1
hPTH1	hPTH1	hPTH1	hPTH1	hPTH1	hPTH1





